

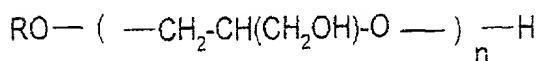
WHAT IS CLAIMED IS:

1. A cosmetic composition for oxidation dyeing keratin fibers, comprising, in a dyeing medium (1) at least one oxidation dye, (2) at least one thickening polymer comprising at least one fatty chain, and (3) at least one fatty alcohol chosen from monoglycerolated and polyglycerolated fatty alcohols.

2. A composition according to claim 1, wherein said keratin fibers are chosen from human keratin fibers.

3. A composition according to claim 2, wherein said human keratin fibers are chosen from human hair.

4. A composition according to claim 1, wherein said at least one fatty alcohol chosen from monoglycerolated and polyglycerolated fatty alcohols is chosen from fatty alcohols of formula:



in which:

- R is chosen from linear and branched, saturated and unsaturated groups comprising from 8 to 40 carbon atoms; and

- n is a number ranging from 1 to 30.

5. A composition according to claim 4, wherein said R comprises from 10 to 30 carbon atoms.

6. A composition according to claim 4, wherein said n is a number ranging from 1 to 10.

7. A composition according to claim 1, wherein said at least one fatty alcohol chosen from monoglycerolated and polyglycerolated fatty alcohols is present in an amount ranging from 0.01% to 30% by weight relative to the total weight of the composition.

8. A composition according to claim 7, wherein said at least one fatty alcohol chosen from monoglycerolated and polyglycerolated fatty alcohols is present in an amount ranging from 0.05% to 20% by weight relative to the total weight of the composition.

9. A composition according to claim 8, wherein said at least one fatty alcohol chosen from monoglycerolated and polyglycerolated fatty alcohols is present in an amount ranging from 0.1% to 15% by weight relative to the total weight of the composition.

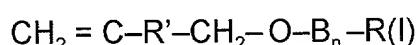
10. A composition according to claim 1, wherein said at least one thickening polymer comprising at least one fatty chain is chosen from anionic, nonionic and cationic thickening polymers comprising at least one fatty chain.

11. A composition according to claim 10, wherein said anionic thickening polymers comprising at least one fatty chain comprise at least one hydrophilic unit and at least one allyl ether unit comprising at least one fatty chain.

12. A composition according to claim 11, wherein said at least one hydrophilic unit is chosen from ethylenic unsaturated anionic monomeric residues.

13. A composition according to claim 12, wherein said ethylenic unsaturated anionic monomeric residues are chosen from residues of vinylcarboxylic acid.

14. A composition according to claim 11, wherein said at least one allyl ether unit comprising at least one fatty chain is chosen from monomeric residues formed from monomers of formula (I):



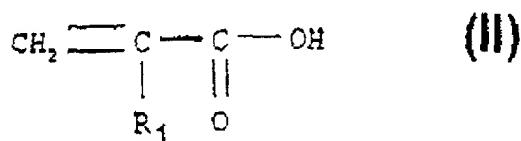
in which R' is chosen from H and CH<sub>3</sub>, B is an ethyleneoxy group, n is chosen from zero and integers ranging from 1 to 100, R is a hydrocarbon group comprising from 8 to 30 carbon atoms chosen from alkyl, arylalkyl, aryl, alkylaryl, and cycloalkyl groups.

15. A composition according to claim 14, wherein said hydrocarbon group comprises from 10 to 24 carbon atoms.

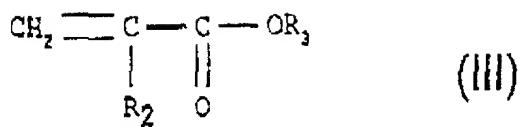
16. A composition according to claim 15, wherein said hydrocarbon group comprises from 12 to 18 carbon atoms.

17. A composition according to claim 10, wherein said anionic thickening polymers comprising at least one fatty chain comprise at least one hydrophilic unit of the olefinic unsaturated carboxylic acid type and at least one hydrophobic unit of the (C<sub>10</sub>-C<sub>30</sub>)alkyl ester of unsaturated carboxylic acid type.

18. A composition according to claim 17, wherein said at least one hydrophilic unit of the olefinic unsaturated carboxylic acid type is chosen from monomeric residues formed from monomers of formula (II):



in which R<sub>1</sub> is chosen from H, CH<sub>3</sub>, and C<sub>2</sub>H<sub>5</sub>, and wherein said at least one hydrophobic unit of the (C<sub>10</sub>-C<sub>30</sub>)alkyl ester of unsaturated carboxylic acid type is chosen from monomeric residues formed from monomers of formula (III):



in which R<sub>2</sub> is chosen from H, CH<sub>3</sub>, and C<sub>2</sub>H<sub>5</sub>, and R<sub>3</sub> is chosen from C<sub>10</sub>-C<sub>30</sub> alkyl groups.

19. A composition according to claim 18, wherein said R<sub>3</sub> is chosen from C<sub>12</sub>-C<sub>22</sub> alkyl groups.

20. A composition according to claim 10, wherein said anionic thickening polymers comprising at least one fatty chain are chosen from terpolymers of maleic anhydride/C<sub>30</sub>-C<sub>38</sub> α-olefin/alkyl maleate.

21. A composition according to claim 10, wherein said anionic thickening polymers comprising at least one fatty chain are chosen from acrylic terpolymers comprising:

- (a) a carboxylic acid with α,β-monoethylenic unsaturation
- (b) a nonsurfactant monomer with α,β-monoethylenic unsaturation different from (a)
- (c) a nonionic monourethane which is the product of the reaction of a monohydric surfactant with a monoisocyanate with monoethylenic unsaturation.

22. A composition according to claim 10, wherein said anionic thickening polymers comprising at least one fatty chain are chosen from copolymers formed from at least two monomers, wherein at least one of said at least two monomers is chosen from a carboxylic acid with α,β-monoethylenic unsaturation, an ester of a carboxylic acid with α,β-monoethylenic unsaturation, and an oxyalkylenated fatty alcohol.

23. A composition according to claim 10, wherein said nonionic thickening polymer comprising at least one fatty chain is chosen from:

- (1) celluloses modified by at least one group comprising at least one fatty chain;
- (2) hydroxypropylguars modified by at least one group comprising at least one fatty chain;
- (3) copolymers formed from vinylpyrrolidone and at least one hydrophobic monomer comprising at least one fatty chain;
- (4) copolymers formed from at least one C<sub>1</sub>-C<sub>6</sub> alkyl methacrylate and at least one amphiphilic monomer comprising at least one fatty chain and copolymers formed from at least one C<sub>1</sub>-C<sub>6</sub> alkyl acrylate and at least one amphiphilic monomer comprising at least one fatty chain;
- (5) copolymers formed from at least one hydrophilic methacrylate and at least one hydrophobic monomer comprising at least one fatty chain and copolymers formed from at least one hydrophilic acrylate and at least one hydrophobic monomer comprising at least one fatty chain;
- (6) polyether-polyurethanes comprising in their chain both hydrophilic sequences and hydrophobic sequences; and
- (7) polymers comprising an aminoplast ether backbone possessing at least one fatty chain.

24. A composition according to claim 10, wherein said nonionic thickening polymers are chosen from polyether-polyurethanes comprising at least two lipophilic hydrocarbon chains, comprising from 6 to 30 carbon atoms, separated by a hydrophilic sequence, wherein said hydrocarbon chains are chosen from pendant chains and chains at the end of a hydrophilic sequence.

25. A composition according to claim 10, wherein said nonionic thickening polymers are chosen from polyether-polyurethanes comprising a polyblock sequence.

26. A composition according to claim 25, wherein said polyether-polyurethanes are in tri-block form.

27. A composition according to claim 10, wherein said cationic thickening polymers comprising at least one fatty chain are chosen from quaternized cellulose derivatives and polyacrylates comprising noncyclic amine-containing side groups.

28. A composition according to claim 1, wherein said at least one thickening polymer comprising at least one fatty chain is present in an amount ranging from 0.01% to 10% by weight relative to the total weight of the composition.

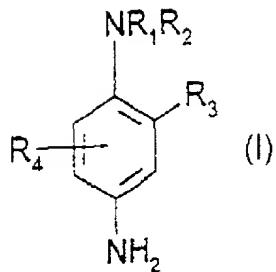
29. A composition according to claim 28, wherein said at least one thickening polymer comprising at least one fatty chain is present in an amount ranging from 0.1% to 5% by weight relative to the total weight of the composition.

30. A composition according to claim 1, wherein said at least one oxidation dye is chosen from oxidation bases, oxidation couplers, and their acid addition salts.

31. A composition according to claim 1, wherein said at least one oxidation dye is chosen from oxidation bases.

32. A composition according to claim 31, wherein said oxidation bases are chosen from ortho- and para-phenylenediamines, double bases, ortho- and para-aminophenols, heterocyclic bases, and acid addition salts of any of the foregoing.

33. A composition according to claim 32, wherein said para-phenylenediamines are chosen from compounds of formula (I):



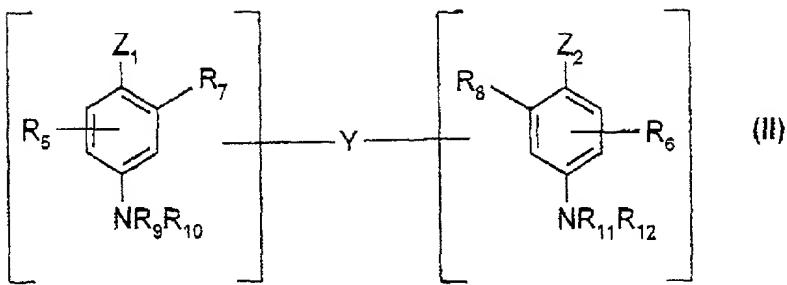
wherein:

- R<sub>1</sub> is chosen from hydrogen, C<sub>1</sub>-C<sub>4</sub> alkyl groups, monohydroxy(C<sub>1</sub>-C<sub>4</sub> alkyl) groups, polyhydroxy(C<sub>2</sub>-C<sub>4</sub> alkyl) groups, (C<sub>1</sub>-C<sub>4</sub>)alkoxy(C<sub>1</sub>-C<sub>4</sub>)alkyl groups, phenyl groups, 4'-aminophenyl groups, and C<sub>1</sub>-C<sub>4</sub> alkyl groups substituted with at least one group chosen from nitrogen-containing groups,
- R<sub>2</sub> is chosen from hydrogen, C<sub>1</sub>-C<sub>4</sub> alkyl groups, monohydroxy(C<sub>1</sub>-C<sub>4</sub> alkyl) groups, polyhydroxy(C<sub>2</sub>-C<sub>4</sub> alkyl) groups, (C<sub>1</sub>-C<sub>4</sub>)alkoxy(C<sub>1</sub>-C<sub>4</sub>)alkyl groups, and C<sub>1</sub>-C<sub>4</sub> alkyl groups substituted with a nitrogen-containing group;
- R<sub>1</sub> and R<sub>2</sub> may also form, together with the nitrogen atom to which they are bonded, a 5- or 6- membered nitrogen-containing heterocycle ring, optionally substituted with at least one group chosen from alkyl groups, hydroxyl groups and ureido groups;
- R<sub>3</sub> is chosen from hydrogen, halogens, C<sub>1</sub>-C<sub>4</sub> alkyl groups, sulfo groups, carboxyl groups, monohydroxy(C<sub>1</sub>-C<sub>4</sub> alkyl) groups, hydroxy(C<sub>1</sub>-C<sub>4</sub> alkoxy) groups, acetylamino(C<sub>1</sub>-C<sub>4</sub> alkoxy) groups, mesylamino(C<sub>1</sub>-C<sub>4</sub> alkoxy) groups, and carbamoylamino(C<sub>1</sub>-C<sub>4</sub> alkoxy) groups; and
- R<sub>4</sub> is chosen from hydrogen, halogens, and C<sub>1</sub>-C<sub>4</sub> alkyl groups.

34. A composition according to claim 33, wherein said R<sub>3</sub> is chlorine.

35. A composition according to claim 32, wherein said double bases are chosen

from compounds of formula (II):



wherein:

- $Z_1$  and  $Z_2$ , which may be identical or different, are each chosen from hydroxyl groups, and  $-\text{NH}_2$  groups, optionally substituted with a group chosen from  $\text{C}_1\text{-C}_4$  alkyl groups, and linkers  $Y$ ;
- linker  $Y$  is chosen from linear and branched, divalent alkylene groups comprising from 1 to 14 carbon atoms, optionally interrupted by, or optionally terminating with, at least one entity chosen from nitrogen-containing groups and heteroatoms, and optionally substituted with at least one group chosen from hydroxyl groups, and  $\text{C}_1\text{-C}_6$  alkoxy groups;
- $R_5$  and  $R_6$ , which may be identical or different, are each chosen from hydrogen, halogens,  $\text{C}_1\text{-C}_4$  alkyl groups, monohydroxy( $\text{C}_1\text{-C}_4$  alkyl) groups, polyhydroxy( $\text{C}_2\text{-C}_4$  alkyl) groups, amino( $\text{C}_1\text{-C}_4$  alkyl) groups, and linkers  $Y$ ; and
- $R_7$ ,  $R_8$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$  and  $R_{12}$ , which may be identical or different, are each chosen from hydrogen, linkers  $Y$ , and  $\text{C}_1\text{-C}_4$  alkyl groups;

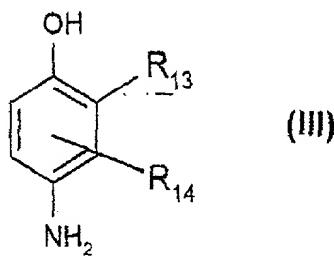
- provided that said compounds of formula (II) comprise only one linker Y per molecule.

36. A composition according to claim 35, wherein said heteroatoms are chosen from oxygen, sulfur, and nitrogen.

37. A composition according to claim 33, wherein said nitrogen-containing groups are chosen from amino, mono(C<sub>1</sub>-C<sub>4</sub>)alkylamino, (C<sub>1</sub>-C<sub>4</sub>)dialkylamino, (C<sub>1</sub>-C<sub>4</sub>)trialkylamino, monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino, imidazolinium, and ammonium radicals.

38. A composition according to claim 35, wherein said nitrogen-containing groups are chosen from amino, mono(C<sub>1</sub>-C<sub>4</sub>)alkylamino, (C<sub>1</sub>-C<sub>4</sub>)dialkylamino, (C<sub>1</sub>-C<sub>4</sub>)trialkylamino, monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino, imidazolinium, and ammonium radicals.

39. A composition according to claim 32, wherein said para-aminophenols are chosen from compounds of formula (III):



wherein:

- R<sub>13</sub> is chosen from hydrogen, halogens, C<sub>1</sub>-C<sub>4</sub> alkyl groups, monohydroxy(C<sub>1</sub>-C<sub>4</sub> alkyl) groups, (C<sub>1</sub>-C<sub>4</sub>)alkoxy(C<sub>1</sub>-C<sub>4</sub>)alkyl groups, amino(C<sub>1</sub>-C<sub>4</sub> alkyl), and hydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino(C<sub>1</sub>-C<sub>4</sub> alkyl) groups; and
- R<sub>14</sub> is chosen from hydrogen, halogens, C<sub>1</sub>-C<sub>4</sub> alkyl groups, monohydroxy(C<sub>1</sub>-C<sub>4</sub> alkyl)

groups, polyhydroxy(C<sub>2</sub>-C<sub>4</sub> alkyl) groups, amino(C<sub>1</sub>-C<sub>4</sub> alkyl) groups, cyano(C<sub>1</sub>-C<sub>4</sub> alkyl) groups, and (C<sub>1</sub>-C<sub>4</sub>)alkoxy(C<sub>1</sub>-C<sub>4</sub>)alkyl groups.

40. A composition according to claim 39, wherein said halogens are fluorine.

41. A composition according to claim 32, wherein said heterocyclic bases are chosen from pyridine derivatives, pyrimidine derivatives, pyrazolopyrimidine derivatives, and pyrazole derivatives.

42. A composition according to claim 31, wherein said oxidation bases are present in an amount ranging from 0.0005% to 12% by weight relative to the total weight of the composition.

43. A composition according to claim 30, wherein said oxidation couplers are chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols, heterocyclic couplers, and their acid addition salts.

44. A composition according to claim 30, wherein said oxidation couplers are present in an amount ranging from 0.0001% to 10% by weight relative to the total weight of the composition.

45. A composition according to claim 30, wherein said acid addition salts are chosen from hydrochlorides, hydrobromides, sulfates, tartrates, lactates, and acetates.

46. A composition according to claim 1 further comprising at least one direct dye.

47. A composition according to claim 1 further comprising at least one reducing agent.

48. A composition according to claim 47, wherein said at least one reducing agent is present in an amount ranging from 0.05% to 3% by weight relative to the total weight of the composition.

49. A composition according to claim 1 further comprising at least one fatty alcohol.

50. A composition according to claim 49, wherein said at least one fatty alcohol is present in an amount ranging from 0.001% to 20% by weight relative to the total weight of the composition.

51. A ready-to-use cosmetic composition for oxidation dyeing keratin fibers, wherein said ready-to-use cosmetic composition is obtained by combining at least one composition (A), in a dyeing medium, comprising:

- at least one oxidation dye,

- at least one thickening polymer comprising at least one fatty chain, and

- at least one fatty alcohol chosen from monoglycerolated and polyglycerolated fatty alcohols, with at least one composition (B) comprising at least one oxidizing agent.

52. A composition according to claim 51, wherein said at least one oxidizing agent is chosen from hydrogen peroxide, urea peroxide, alkali metal bromates, alkali metal ferricyanides, persalts, and oxidation-reduction enzymes.

53. A composition according to claim 52, wherein said oxidation-reduction enzymes are chosen from laccases, peroxidases, and oxidoreductases comprising 2 electrons.

54. A composition according to claim 52, wherein said at least one oxidizing agent is hydrogen peroxide.

55. A composition according to claim 54, wherein said hydrogen peroxide is present in an oxygenated water solution comprising a titre ranging from 1 to 40 in volume.

56. A composition according to claim 1, wherein said composition possesses a

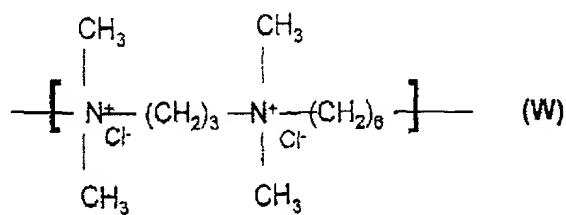
pH ranging from 4 to 12.

57. A composition according to claim 51, wherein said keratin fibers are chosen from human keratin fibers.

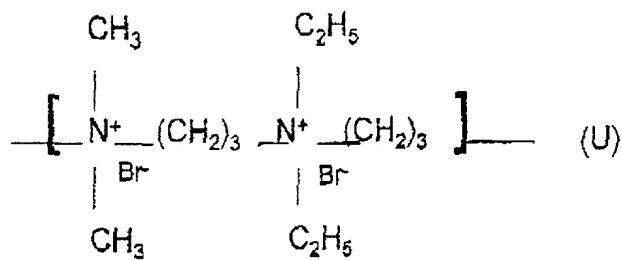
58. A composition according to claim 57, wherein said human keratin fibers are chosen from human hair.

59. A cosmetic composition according to claim 51 further comprising at least one polymer chosen from cationic polymers and amphoteric polymers, wherein said at least one polymer is present in said at least one composition (A), in said at least one composition (B), or in said at least one composition (A) and said at least one composition (B).

60. A composition according to claim 59, wherein said at least one polymer is chosen from cationic polymers chosen from quaternary polyammoniums comprising recurring units of formula (W):



61. A composition according to claim 59, wherein said at least one polymer is chosen from cationic polymers chosen from quaternary polyammoniums comprising recurring units of formula (U):



62. A composition according to claim 59, wherein said at least one polymer is chosen from amphoteric polymers chosen from copolymers comprising at least one monomeric residue chosen from acrylic acid residue and a residue of a salt of dimethyldiallylammonium.

63. A composition according to claim 59, wherein said at least one polymer chosen from cationic polymers and amphoteric polymers is present in an amount ranging from 0.01% to 10% by weight relative to the total weight of the composition.

64. A composition according to claim 63, wherein said at least one polymer chosen from cationic polymers and amphoteric polymers is present in an amount ranging from 0.05% to 5% by weight relative to the total weight of the composition.

65. A composition according to claim 64, wherein said at least one polymer chosen from cationic polymers and amphoteric polymers is present in an amount ranging from 0.1% to 3% by weight relative to the total weight of the composition.

66. A composition according to claim 51 further comprising at least one surfactant chosen from anionic, cationic, nonionic and amphoteric surfactants, wherein said at least one surfactant is present in said at least one composition (A), in said at least

one composition (B), or in said at least one composition (A) and said at least one composition (B).

67. A composition according to claim 10, wherein said anionic thickening polymers are chosen from copolymers formed from at least three monomers, wherein at least one of said at least three monomers is chosen from a carboxylic acid with  $\alpha,\beta$ -monoethylenic unsaturation, at least one of said at least three monomers is chosen from an ester of a carboxylic acid with  $\alpha,\beta$ -monoethylenic unsaturation, and at least one of said at least three monomers is chosen from an oxyalkylenated fatty alcohol.

68. A composition according to claim 66, wherein said at least one surfactant is present in an amount ranging from 0.01% to 40% by weight relative to the total weight of the composition.

69. A composition according to claim 68, wherein said at least one surfactant is present in an amount ranging from 0.1% to 30% by weight relative to the total weight of the composition.

70. A composition according to claim 51 further comprising at least one thickening agent chosen from cellulose derivatives, guar derivatives, gums of microbial origin, and synthetic thickeners which do not possess a fatty chain, wherein said at least one thickening agent is present in said at least one composition (A), in said at least one composition (B), or in said at least one composition (A) and said at least one composition (B).

71. A composition according to claim 70, wherein said at least one thickening agent is present in an amount ranging from 0.01% to 10% by weight relative to the total weight of the composition.

72. A method for oxidation dyeing keratin fibers comprising:

(a) applying to said keratin fibers at least one composition (A) comprising, in a dyeing medium:

- at least one oxidation dye,
- at least one thickening polymer comprising at least one fatty chain, and
- at least one fatty alcohol chosen from monoglycerolated and polyglycerolated fatty alcohols; and

(b) developing the color with the aid of at least one oxidizing composition (B) comprising at least one oxidizing agent, wherein said at least one oxidizing composition (B) is combined at the time of use with said at least one composition (A) or said at least one oxidizing composition (B) is applied sequentially to said at least one composition (A) without intermediate rinsing.

73. A method according to claim 72, wherein said keratin fibers are chosen from human keratin fibers.

74. A method according to claim 73, wherein said human keratin fibers are human hair.

75. A method for oxidation dyeing keratin fibers comprising:

- applying to said keratin fibers at least one cosmetic dyeing composition comprising, in a dyeing medium, at least one oxidation dye and at least one fatty alcohol chosen from monoglycerolated and polyglycerolated fatty alcohols, and optionally comprising at least one thickening polymer comprising at least one fatty chain,

- developing the color with the aid of at least one oxidizing composition comprising at least one oxidizing agent and an effective quantity of at least one thickening polymer comprising at least one fatty chain,

- wherein said at least one oxidizing composition is combined at the time of use with said at least one dyeing composition or wherein said at least one oxidizing composition is applied sequentially to said at least one dyeing composition without intermediate rinsing.

76. A method according to claim 75, wherein said keratin fibers are chosen from human keratin fibers.

77. A method according to claim 76, wherein said human keratin fibers are human hair.

78. A kit for dyeing keratin fibers comprising at least two compartments wherein:

- a first compartment comprises (1) at least one oxidation dye, (2) at least one thickening polymer comprising at least one fatty chain, and (3) at least one fatty alcohol chosen from monoglycerolated and polyglycerolated fatty alcohols, and

- a second compartment comprises at least one oxidizing agent.

79. A kit according to claim 78, wherein said keratin fibers are chosen from human keratin fibers.

80. A kit according to claim 79, wherein said human keratin fibers are human hair.

81. A kit for dyeing keratin fibers comprising at least two compartments wherein:

- a first compartment comprises at least one oxidation dye and at least one fatty alcohol chosen from monoglycerolated and polyglycerolated fatty alcohols, and optionally comprises at least one thickening polymer comprising at least one fatty chain and

- a second compartment comprises at least one oxidizing agent and an effective quantity of at least one thickening polymer comprising at least one fatty chain.

82. A kit according to claim 81, wherein said keratin fibers are chosen from human keratin fibers.

83. A kit according to claim 82, wherein said human keratin fibers are human hair.

84. A kit for dyeing keratin fibers comprising at least three compartments wherein:

- a first compartment comprises at least one oxidation dye and at least one fatty alcohol chosen from monoglycerolated and polyglycerolated fatty alcohols, and optionally comprises at least one thickening polymer comprising at least one fatty chain,

- a second compartment comprises at least one thickening polymer comprising at least one fatty chain and

- a third compartment comprises at least one oxidizing agent and optionally comprises at least one thickening polymer comprising at least one fatty chain.

85. A kit according to claim 84, wherein said keratin fibers are chosen from human keratin fibers.

86. A kit according to claim 85, wherein said human keratin fibers are human hair.

87. A composition according to claim 23, wherein said hydrophilic sequences are chosen from hydrophilic sequences of a polyoxyethylenated nature and wherein said hydrophobic sequences are chains chosen from aliphatic chains, cycloaliphatic chains, and aromatic chains.

88. A composition according to claim 49, wherein said at least one fatty alcohol is chosen from linear and branched, saturated and unsaturated fatty alcohols.